



The Governor's Environmental Stewardship Award
for
Building Green

Sevier Park Community Center



Nashville's newly constructed Sevier Park Community Center received LEED Gold certification for its green building strategies in October 2014. The center, built by the Nashville Metropolitan Board of Parks and Recreation, incorporates rain gardens and pervious concrete to help control stormwater and vegetated/cool roofs to reduce the heat island effect. Other sustainable features include the use of recycled materials from the former community center. The development did not disturb mature trees and the building was integrated into the natural slope of the terrain helping to conserve natural resources and conserve energy through passive heating and cooling technologies. Additionally, the green infrastructure on-site and improvements have helped to improve water quality.













L – R: Commissioner Robert J. Martineau, Jr., TN Department of Environment and Conservation; Tommy Lynch, Nashville Parks Director; Governor Bill Haslam





The Governor's Environmental Stewardship Award
for
Clean Air

*Building a Natural Gas
Infrastructure*

Memphis Light, Gas and Water



Memphis Light, Gas and Water (MLGW) is reducing area diesel emissions and improving air quality in Memphis and on state highways by building and assisting in the development of natural gas fueling stations. Providing alternative fuels helps to reduce air pollution and address the city's poor air quality.

MLGW is currently operating the only public access compressed natural gas station in Memphis. In 2014, MGLW built a second compressed natural gas station in South Memphis and there are plans to construct a third one. MLGW has 92 compressed natural gas powered vehicles and four tank trailers allowing them to save more than 37,000 gallons of gasoline and reduce more than 100 tons of greenhouse gas emissions. Last year, their stations sold more than 250,000 units of compressed natural gas which resulted in reductions of greenhouse gas emissions, NOx, VOCs, particulate matter, and other tailpipe air pollutants.

In 2014, MLGW's fueling stations enabled local companies to switch out their fleets to compressed natural gas because of easy access to their fueling stations. Inland Waste, a garbage collector in Memphis, purchased 24 new trash trucks powered by compressed natural gas which in turn saves the company's bottom line 30 percent and reduces its emissions by 90 percent per truck.













L – R: Commissioner Robert J. Martineau, Jr., TN Department of Environment and Conservation; Alonzo Weaver, Vice President of Engineering & Operations; Michael Taylor, Assistant Manager, Commercial and Industrial Customer Care; Governor Bill Haslam





The Governor's Environmental Stewardship Award
for
Energy and Renewable Resources

*McMinnville Leads the Way
with LEDs*



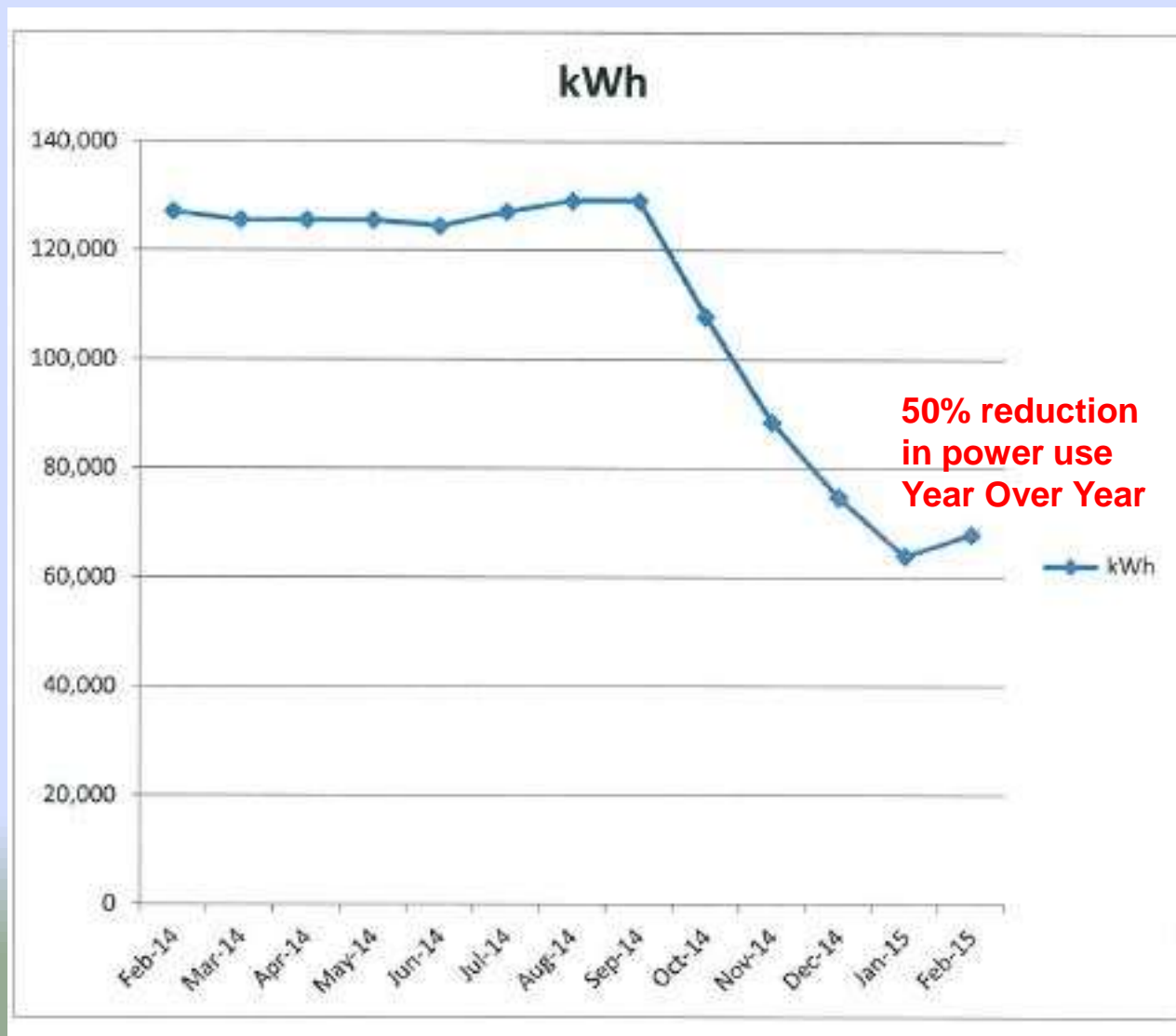
McMinnville converted all of its city street lights to LED lighting, reducing their energy use, saving taxpayer money, and providing citizens with safely lit streets. McMinnville is the first city in the Tennessee Valley to totally convert its street lights to LEDs. Approximately three years ago, Mayor Jimmy Haley decided he wanted to replace city street lights with LEDs and he began working with McMinnville Electric System to find a cost-effective LED. The city chose an extended life, 15-year photocell to control when the street lights come on and off. The new LED street lights also save the city money since LEDs don't have to be maintained as frequently as standard street lights. The city also plans to replace outdoor yard lights with LEDs controlled by managed photocells.













L – R: Commissioner Robert J. Martineau, Jr., TN Department of Environment and Conservation; Rodney Boyd, General Manager & CEO of McMinnville Electric System; Dr. Jeff McKinley, Chairman of the Research & Development Committee for the Board of Public Utilities; Ralph Dunn, Manager of Engineering and Operations for McMinnville Electric System; Mayor Jimmy Haley, Mayor of McMinnville; Governor Bill Haslam





The Governor's Environmental Stewardship Award
for
Environmental Education and Outreach

GreenTrips

*A Chattanooga Area Transportation Planning
Organization Program*



The Chattanooga-Hamilton County Regional Planning Agency established the GreenTrips program in 2014 to educate and encourage citizens to reduce emissions and improve air quality in Hamilton County. The program encourages people to think about green trips like walking, biking, carpooling, or taking public transit instead of using a single-occupant vehicle. Their website allows members to register and log their green trips to get points that can be redeemed for prizes through contests.

The program was funded through a three-year, \$600,000 grant from the Tennessee Department of Transportation's Transportation Planning Organization given to the agency in 2011. GreenTrips' staff educates the public about the program at neighborhood meetings, fairs, summits, festivals, and works with organizations including the Sierra Club, Outdoor Chattanooga, Bike Walk Chattanooga, Bike Chattanooga, the Chattanooga Area Regional Transportation Authority, and other sustainable transportation organizations. Area companies are taking part in the program like Amazon, BlueCross BlueShield of TN, and Unum. In 2014, GreenTrips organized the MoveRight Challenge where Chattanooga businesses competed to see which company could log the most green trips. The competition helped to reduce more than 83,000 pounds of automobile emissions and other greenhouse gas emissions, as well as cut down on traffic congestion.

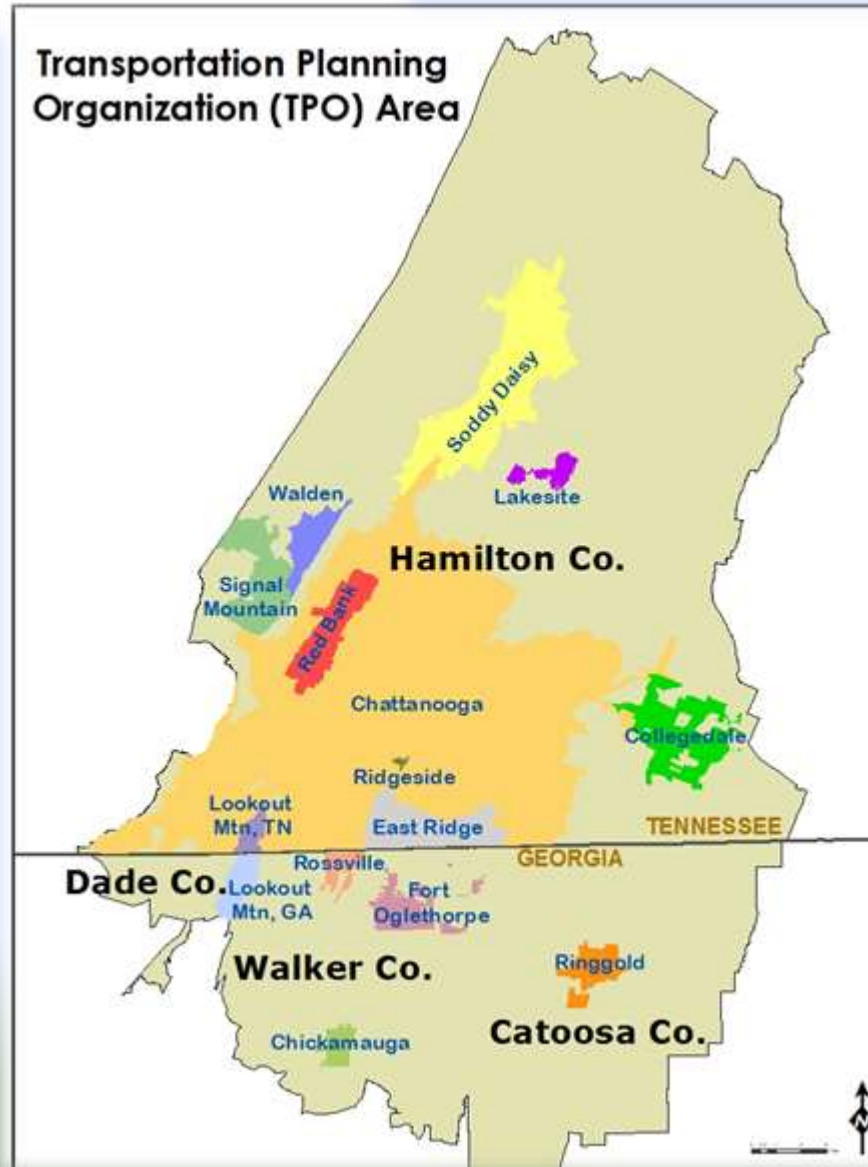




GreenTrips

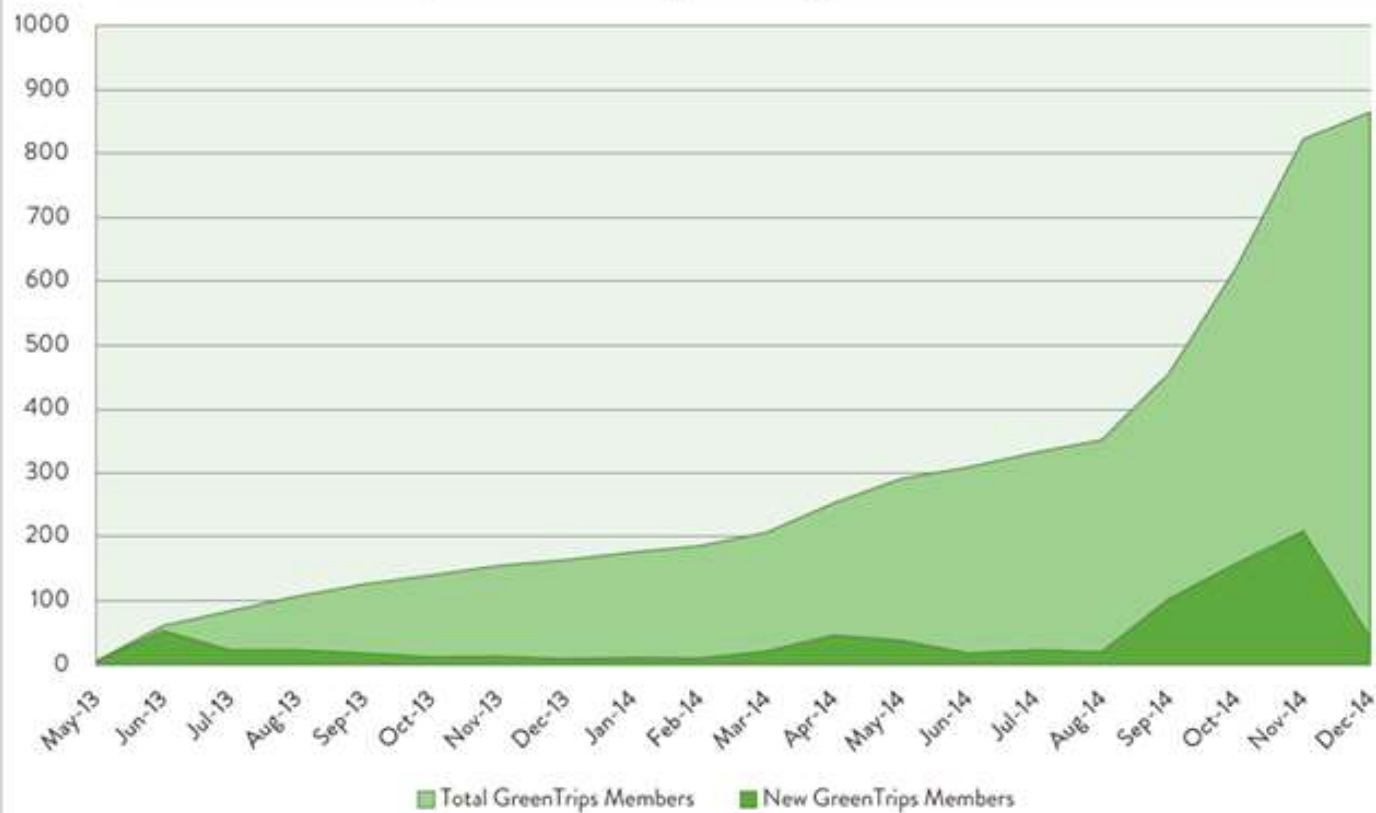
EVERY TRIP COUNTS

Transportation Planning Organization (TPO) Area





GreenTrips Membership Through December 2014





GreenTrips
EVERY TRIP COUNTS

GREENTRIPSCHA.ORG

710,234
MILES LOGGED

Reduction of drive-alone vehicle miles traveled

855

MEMBERS

497,669 LBS. OF

AUTO EMISSIONS
SAVED



14

EMPLOYER
PARTNERS



24,900
GALLONS OF
GASOLINE SAVED



5,874,708
CALORIES
BURNED



772
INCENTIVES
AWARDED



\$126,233
DOLLARS SAVED

GreenTrips is a program of the Chattanooga-Hamilton County/North Georgia Transportation Planning Organization and the Capital Planning Agency. For more information, visit www.greentripscha.org/gtr



GreenTrips

EVERY TRIP COUNTS

MoveRight CHALLENGE



a better way to get there

Congratulations to our winners!



amazon fulfillment

Winner, Large Workplace



Winner, Medium Workplace



Winner, Small Workplace

12,000 Green Trips Taken • 83,000 Pounds of Pollution Avoided
4,176 Gallons of Gasoline Saved • 700,000 Calories Burned

Thank you to the local businesses that helped make the MoveRight Challenge a success!

Blue Cross Blue Shield TN • CHA1 Amazon Fulfillment Center • City of Chattanooga
Crabtree Farms • EPB • green|spaces • Hamilton County • Ivy Academy
River City Company • Skuidify LLC • TVA • Unum • Whirlpool Corporation

Final Standings

Large		Trips
1st	CHA1 Amazon Facility	5189
2nd	City of Chattanooga	2528
3rd	Unum	1392
4th	TVA	695
5th	Whirlpool Corporation	405
6th	EPB	357
7th	BlueCross BlueShield TN	40
8th	Hamilton County	10
Medium		Trips
1st	Skuidify	105
2nd	Ivy Academy	64
Small		Trips
1st	Crabtree Farms	196
2nd	River City Company	89
3rd	green spaces	66

11/30/2014

Company	GreenTrips Members
BlueCross BlueShield of Tennessee	12
Bellhops	4
CHA1 Amazon	295
City of Chattanooga	65
Coyote Logistics	2
Crab Tree Farms	6
EPB	23
The Gear Closet	2
green spaces	2
Hamilton County Government	6
Ivy Academy	1
River City Company	6
Rock / Creek	9
Skuid, LLC	12
Society of Work	2
TVA	16
Unum	72
Whirlpool Corporation	17
Total	552





GreenTrips Coordinator Amy Morris (l), Assistant to the General Manager and GreenTrips Coordinator Julyanne Culbertson, GreenTrips Coordinator Jonathan Gibbons and LP Manager Alan Miller celebrate the CHAI Amazon Fulfillment Center's MoveRight Challenge victory with GreenTrips REX.



L – R: Commissioner Robert J. Martineau, Jr., TN Department of Environment and Conservation; Melissa Taylor, Director, Strategic Long Range Planning; Cortney Mild, Senior Multimodal Transportation Planner; Amy Morris, GreenTrips Coordinator; Jonathan Gibbons, GreenTrips Coordinator; Governor Bill Haslam





The Governor's Environmental Stewardship Award
for
Environmental Education and Outreach -
Schools

Trevecca Urban Farm



The Trevecca Urban Farm was formed in 2011 as a way to provide good-quality, fresh food for neighbors in the area, educate the community about growing fresh food, and create a teaching tool for Trevecca Nazarene University students to help food-insecure neighborhoods. The farm program has many components, including livestock guardian dogs, heritage goats, pigs, chickens, a worm farm, an aquaponics fish farm, campus composting, beekeeping, an urban orchard, a greenhouse, a vegetable garden, and community gardens where they teach the public to grow food. The concept for the farm began because the university is located in an urban area where it is difficult to buy affordable or good-quality fresh food. Areas like this are known as food deserts. The neighborhood also has a high crime rate and low-performing schools. Discussions and research began as part of the university's Social and Environmental Justice Program.

The university received a grant from Aetna Foundation and an environmental education grant from the U.S. Environmental Protection Agency to build the farm. The farm helps to conserve fuel that would have been required to truck in food, helps to reduce crime by turning unattractive deserted lots into gardens, improves the skill sets of citizens, and increases neighborhood interaction. Farm staff and students have taught their planting and growing methods to local organizations like Hands on Nashville and have done presentations locally, nationally, and worldwide in places like the Philippines.













L – R: Commissioner Robert J. Martineau, Jr., TN Department of Environment and Conservation; Jason Adkins, Director, Trevecca Urban Farm, Trevecca Nazarene University; Governor Bill Haslam





The Governor's Environmental Stewardship Award
for
Land Use

New Alcoa High School



The City of Alcoa is opening a new energy-efficient high school built on 26 acres of a 350-acre brownfield site. The site was once home to West Plant, an aluminum fabricating mill operated by the Aluminum Company of America (ALCOA, Inc.). In 2008, ALCOA began to look for firms to redevelop the site.

Data was compiled from environmental studies and reports to form a mixed-use development plan. West Plant, which occupied the site for 69 years, had byproducts from their manufacturing processes that were disposed of in several on-site landfills. To build the 170,000-square-foot high school on the site safely, officials had to eliminate using the landfill area that included various contaminants. They also remediated a 2.5-acre stormwater management area once containing settling ponds to make green space for the school campus.



ALCOA West Plant c. 1922



ALCOA West Plant c. 1972



West Plant Brownfield 2002





Landfill

Stormwater
Mngt Area

Landfill

2012

Google earth

Imagery Date: 4/11/2012 35°47'20.93" N 83°58'50.80" W elev 883 ft eye alt 2469 ft



11/9/2013

Landfill

Stormwater
Mngt Area

2013

Landfill

Google earth

1992

Imagery Date: 11/9/2013 35°47'20.93" N 83°58'50.80" W elev 883 ft eye alt 2469 ft



Landfill

Landfill

Stormwater
Mgnt Area

2014

Google earth

1992

Imagery Date: 10/16/2014 35°47'20.93" N 63°58'50.80" W elev: 883 ft eye alt: 2469 ft

Construction



Completion









“New Alcoa High School sets high standard for land stewardship” Editorial in *The Daily Times* on June 2, 2015

Build it and they will come. Students, of course will fill the halls and classrooms at the new Alcoa High School. But before the first class is held, the building and campus have already received a top grade. The care with which the new school was built under demanding environmental conditions has been recognized with a Tennessee Environmental Stewardship Award...

There is plenty of credit to share for this project that required diligent planning and cooperation. Alcoa City Schools, including the staff and board, and the city of Alcoa deserve kudos for making the new AHS an award-winner. Project representative Lawler-Wood and Merit Construction and their employees were key to the successful completion of the project, as was the Tennessee Department of Environment and Conservation.

As new generations of Alcoa High School students are educated at the new school, they have an entire community to thank for a first-class learning environment.



L – R: Commissioner Robert J. Martineau, Jr., TN Department of Environment and Conservation; Steve Marsh, School Board Chair; Mayor Don Mull, Mayor of the City of Alcoa; Governor Bill Haslam





The Governor's Environmental Stewardship Award
for
Materials Management

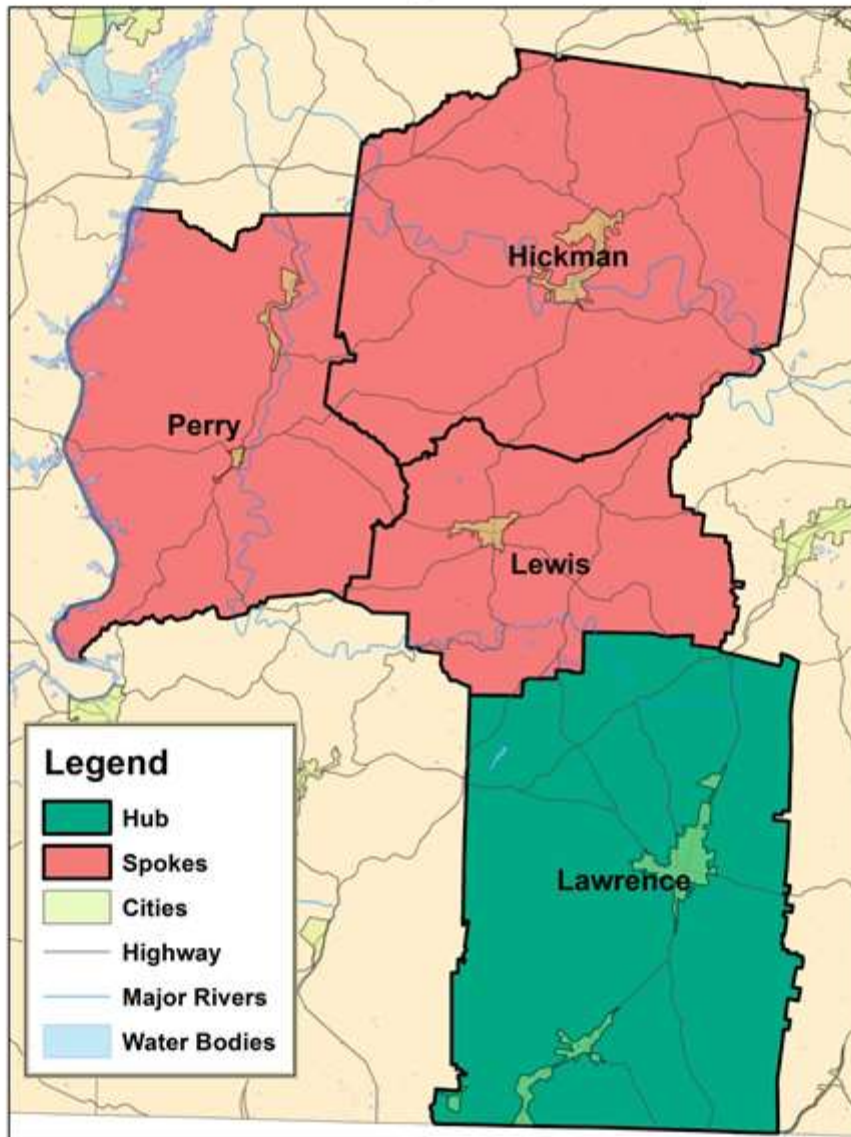
*Lawrence County
Recycling Program*



Since October 2013, Lawrence County's regional recycling program has eliminated more than 35,000 tons of waste from landfills, created more than \$200,000 in recycling revenue for the area, and helped the county avoid transportation and disposal costs. Recyclable materials are pulled from Lawrence, Hickman, Lewis, and Perry counties resulting in a landfill diversion rate of 64 percent. Area students are helping to recycle with 15 county and private schools housing recycling drop-off storage buildings. The schools drop-off locations accounted for 80 percent of materials recycled in Lawrence County. In 2014, the schools helped to collect nearly 1 million pounds of material. The county donated an old school bus dubbed the "Re-User Cruiser" to collect recyclables from schools' storage buildings and transport them to the recycling facility. At the Lawrenceburg industrial park area recycling facility, they receive and recycle batteries, motor oil, tires, paint, and electronic waste as well as receive and grind wood waste and transport it to an industrial plant for boiler fuel. In addition, a truck collects cardboard and paper products from more than 200 area businesses.



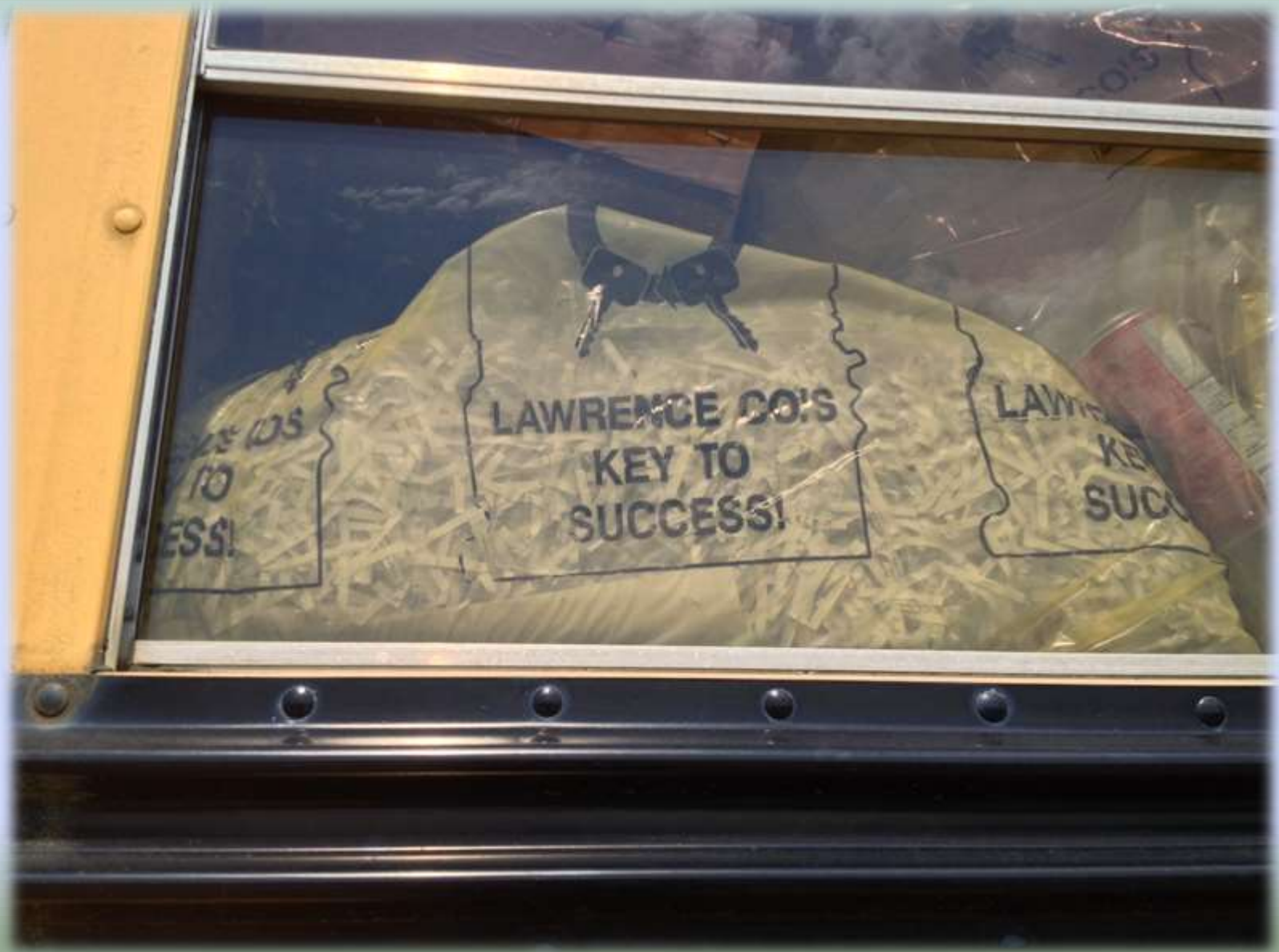
Lawrence County Hub and Spoke







“Re-User Cruiser”







L – R: Commissioner Robert J. Martineau, Jr., TN Department of Environment and Conservation; T.R. Williams, County Executive; Gary Wayne Hyde, Lawrence County Solid Waste Director; Phillip Hood, County Commissioner; Barry Doss, State Representative; Governor Bill Haslam





The Governor's Environmental Stewardship Award
for
Natural Heritage

*Copper Basin Project Lower
North Potato Creek*



Glenn Springs Holdings Inc., the Tennessee Department of Environment and Conservation, and the United States Environmental Protection Agency have been remediating the environmentally degraded Lower North Potato Creek Watershed for the past 14 years. Dating back to the 1850s, the watershed, part of the Copper Basin in Polk County, was a site of extensive copper mining and processing. To improve the water quality, biological integrity, and diversity, Glenn Springs Holdings Inc. has installed and is maintaining fences to restrict access to designated hazardous areas. They have also removed and isolated waste materials, constructed passive and active water treatment systems, captured poor quality water for treatment, diverted water of good quality, enhanced vegetation and wildlife habitat, and restored stream segments and wetlands. In 2014, modifications were made to the North Potato Creek Wastewater Treatment Plant allowing contaminated water to get treated for metal removal before going to the Ocoee River.



Copper Basin in 1977



The Copper Basin East of Ducktown, TN
1973 by Emory Kristof
National Geographic Image Collection

Remediation Efforts Across Decades





Before



After



Before



After





Before



After

Lower North Potato Creek Wastewater Treatment Plant





L – R: Commissioner Robert J. Martineau, Jr., TN Department of Environment and Conservation;
Frank Russel, retired Glenn Springs site manager; Scott Deal, Glenn Springs Current site manager;
Franklin Miller, retired Glenn Springs Project manager; Governor Bill Haslam





The Governor's Environmental Stewardship Award
for
Sustainable Performance

*Enhancing the “Nashville
Airports Experience”*



Metropolitan Nashville Airport Authority (MNA) manages Nashville, Tennessee's airport system which includes the Nashville International Airport and the John C. Tune Airport. In 2010, MNA began implementing sustainability initiatives at its Nashville International Airport to promote water conservation, energy efficiency, social well-being, and community involvement.

MNA opened a car facility that reclaims water for washing rental cars and a system that adjusts lighting levels. Additionally, they opened solar-covered electric vehicle charging stations. MNA reuses and repurposes materials including recycled/reused concrete and asphalt to build runways; using recycled or repurposed demolition debris; reusing asphalt millings for roads, shoulders and entrances; using excavated rock and demolished concrete for erosion control and for slope stabilization and reusing tree mulch for berm material, erosion control, and matting for new grass seed. MNA has also implemented an energy savings project upgrading lighting fixtures and motion sensors. The airport has helped educate people about sustainability by presenting their sustainability program at national and regional conferences, hosting community recycling days, and working with local contractors on development. In the summer of 2014, they installed an interactive green screen in the terminal to allow passengers and business partners to learn about their sustainability initiatives.





Metropolitan Nashville
Airport Authority™













L – R: Commissioner Robert J. Martineau, Jr., TN Department of Environment and Conservation; Julie Mosley, Chair, Board of Commissioners; Michelle Baker, Assistant Manager, Environmental Compliance; Rob Wigington, President and CEO; Governor Bill Haslam





The Governor's Environmental Stewardship Award
for
Pursuit of Excellence

LEED Gold Middleton
ThyssenKrupp Elevator Manufacturing



ThyssenKrupp Elevator Manufacturing in Middleton, Tennessee, reduced their energy consumption by 38 percent in 2014 and in February of this year the plant became LEED Gold certified. The company received a Governor's Award for Environmental Stewardship for the Salvagnini project in 2011. That same year, it began to work with the Department of Energy's Better Building Better Plants program pledging to reduce energy consumption.

To reach this goal, ThyssenKrupp has reduced energy use and improved sustainability in various ways at their plant. They are maintaining and repairing HVAC units to be more efficient and putting a system in place to control and monitor HVAC, air systems, natural gas, and water. ThyssenKrupp has added high-speed exterior doors to keep hot and cold air from getting inside. They have replaced 28 propane fork lifts with electric fork lifts. They have installed refrigerated air dryers and additional air storage capacity reducing the number of air compressors and saving more than 1,400,000 kWh annually. ThyssenKrupp has also added energy efficient bulbs with motion sensors and replaced outside lighting with LEDs. They have reduced irrigation and added low flow fixtures to save more than 600,000 gallons of water per year and they have covered 75 percent of the plant's roof with reflective coating to reduce the building heat load. ThyssenKrupp has increased recycling efforts to divert 97 percent of waste from landfills. In addition, they are practicing sustainable housekeeping, pest control, and purchase of office supplies as well as setting aside land for native vegetation growth.



RESOURCES



Our History



1945-

1944

1942

1920's

1925

1927

1969

1965

1962

1960's

1980's

1980

1985

1990

1995

2000







ENGINEERING
CONFIDENCE.



ThyssenKrupp

ThyssenKrupp Elevator Americas



LEED® FACTS

ThyssenKrupp Elevator Americas, Tennessee

GOLD 63*

Water Efficiency	4-10
Energy & Atmosphere	11-14
Materials & Resources	17-20
Indoor Environmental Quality	21-23
Quality of Construction	24-26
Regional Priority Credits	27-29

*Based on LEED v4.1 Building for Manufacturing and Industrial

ABOUT OUR FACTORY

1969 YEAR OUR
FACTORY WAS BUILT

THYSSENKRUPP CONSTRUCTION ADDITIONAL COSTS
THAT 1,700,000 US\$ WAS USED TO LEAD US TO

OUR LEED EFFORTS ARE
SAVING US
3,317,684

65%
OF OUR FLOOR
SPACE IS NOW
GREEN

WE AVOIDED ALL POTABLE WATER
PLANTS DURING 200,000 GALLONS
OF WASTEWATER AND 11,000 GALLONS
OF OIL, 12,400 GALLONS

WE ELIMINATED POTABLE
WATER IRRIGATION ON OUR
LANDSCAPE BY USING NATURAL
LANDSCAPE AND 10,000 GALLONS

OUR POWERFUL
LINE REDUCES NOISE
BY SEVENTY PERCENT

REPLACING AND
UPGRADING
HVAC UNITS
SAVES ENERGY
AND REDUCES
EMISSIONS

NEW WORKING
MANAGEMENT
SYSTEM

MOVING US TO
RECENTLY CONSTRUCTED, THE
FACTORY AT ALL TIMES

LEED
CERTIFIED

OUR NEW FLOOR
SYSTEM FLOOR
IS GREEN
COLORFUL AND
HAS 2,000
AND 10,000
GALLONS OF
WATER

200
LEED
GREEN
BUILDINGS

REPLACING AND
UPGRADING
HVAC UNITS

SAVES ENERGY
AND REDUCES
EMISSIONS

SAVES ENERGY
AND REDUCES
EMISSIONS







MY FACTORY IS
LEED GOLD
THYSSENKRUPP ELEVATOR
MANUFACTURING
MIDDLETON, TN





L – R: Commissioner Robert J. Martineau, Jr., TN Department of Environment and Conservation; Pat Ginn, Vice President Manufacturing; Governor Bill Haslam





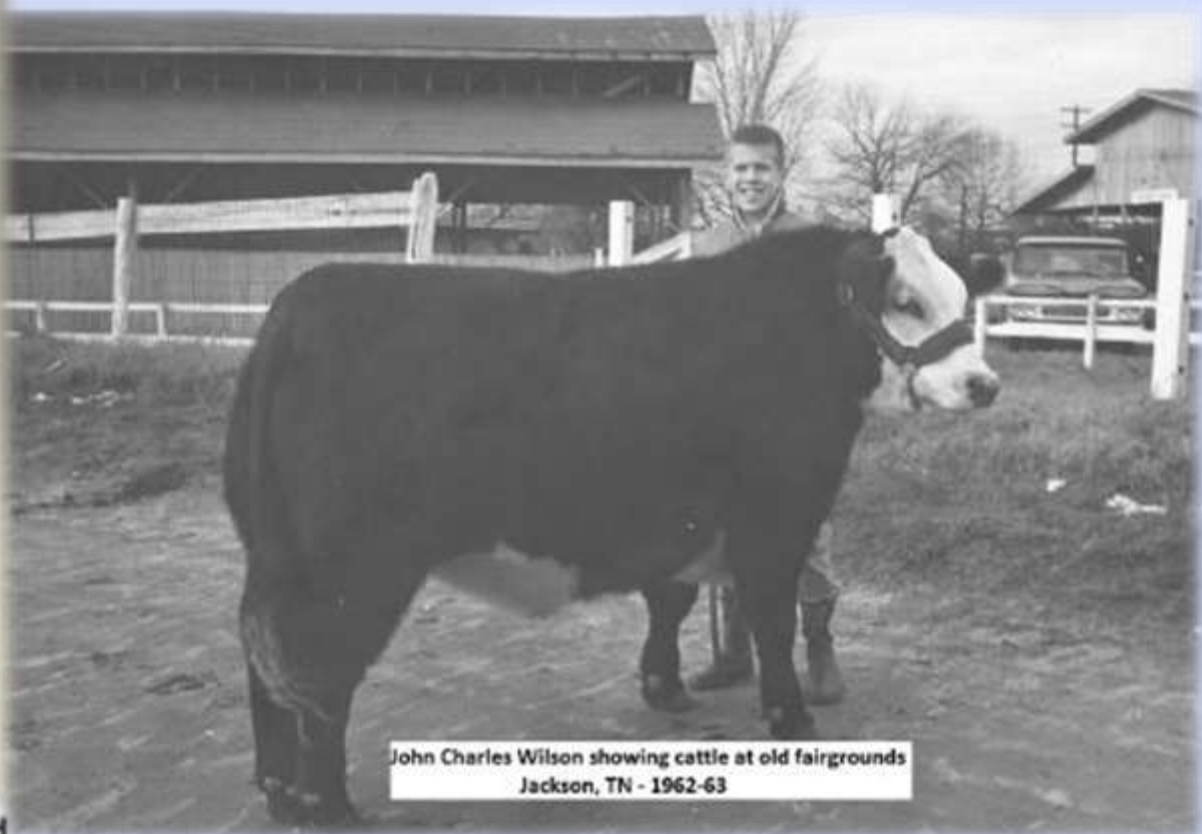
Robert Sparks Walker Lifetime Achievement

John Charles Wilson





John Charles Wilson 6 1/2 years old
1956



John Charles Wilson showing cattle at old fairgrounds
Jackson, TN - 1962-63



Bolton High School - 1968 FFA Member

Barnwarming King and Queen

JOHN CHARLES WILSON
SANDY RUTHERFORD



J. G. WILSON
President



JERRY KERLEY
Secretary



SAMMY JOLLY
Reporter



Bolton Chapter F.F.A.



RUSS McCALLEN
V. President



DANNY BOOZE
Treasurer

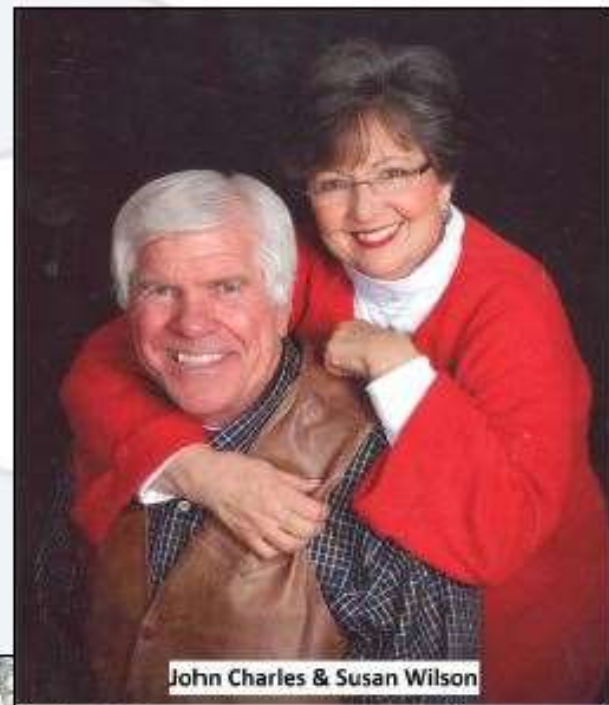


CHARLES MARKLE
Sentinel

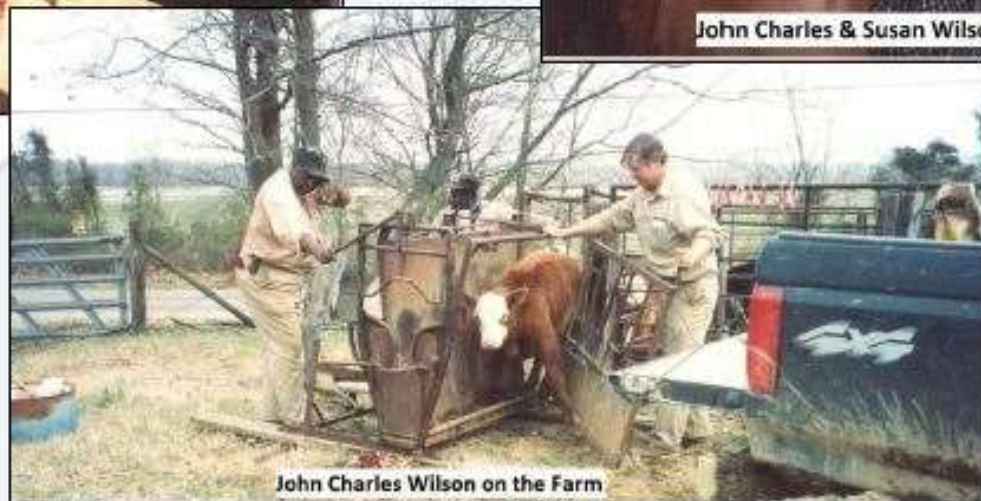
President of FFA at Bolton HS, Memphis



John Charles & Robert G. Wilson



John Charles & Susan Wilson



John Charles Wilson on the Farm

















2015 Robert Sparks Walker Lifetime Conservation Achievement Award Recipient



John Charles Wilson



L – R: Commissioner Julius Johnson, TN Department of Agriculture; Commissioner Robert J. Martineau, Jr., TN Department of Environment and Conservation; John Charles Wilson; Governor Bill Haslam



